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**PLAGUE-PREVENTION WORK.****CALIFORNIA.**

The following reports of plague-prevention work in California were received from Senior Surg. Pierce, of the United States Public Health Service, in charge of the work:

WEEK ENDED SEPT. 2, 1916.

FEDERAL AND COUNTY INSPECTION SERVICE.

[For the enforcement of the law of June 7, 1913.]

Counties.	Number in-spections.	Number rein-spections.	Acres in-spected.	Acres rein-spected.	Acres treated.		Holes treated.
					Waste balls.	Grain.	
Alameda.....	1	111	68	29,455	2,908		
Contra Costa.....	1	68	160	21,192	5,202		
Stanislaus.....	258	82	27,330	22,970	669	11,272	1,705
San Benito.....	37	56	9,830	27,033	25,921		
Santa Cruz.....		32		5,742	3,508		
Merced.....	38	14	18,024	3,220	1,370		
Monterey.....	32	5	38,979	1,965	50	10,445	300
Santa Clara.....	30	7	12,041	2,320	2,536		
San Mateo.....	14		1,645				
Total.....	410	375	108,009	113,897	719	63,162	2,005

**RATS COLLECTED AND EXAMINED FOR PLAGUE.**

Cities.	Collected.	Examined.	Infected.
Oakland.....	23	23	None.
Richmond.....	24	24	None.
Pittsburg.....	74	74	None.
Total.....	121	121	

**RECORD OF PLAGUE INFECTION.**

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number found infected since May, 1907.
<b>Cities:</b>				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	( <sup>1</sup> )	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	( <sup>1</sup> )	126 rats.
Berkeley.....	Aug. 28, 1907	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
Los Angeles.....	Aug. 11, 1908	( <sup>1</sup> )	Aug. 21, 1908	1 squirrel.
<b>Counties:</b>				
Alameda (exclusive of Oakland and Berkeley).	Sept. 24, 1909	<sup>2</sup> Oct. 17, 1909	June 23, 1916	293 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	( <sup>1</sup> )	June 28, 1916	1,629 squirrels.
Fresno.....	( <sup>1</sup> )	( <sup>1</sup> )	Oct. 27, 1911	1 squirrel.
Merced.....	( <sup>1</sup> )	( <sup>1</sup> )	May 12, 1916	7 squirrels.
Monterey.....	( <sup>1</sup> )	( <sup>1</sup> )	May 27, 1916	38 squirrels.
San Benito.....	June 4, 1913	( <sup>1</sup> )	July 1, 1916	72 squirrels.
San Joaquin.....	Sept. 18, 1911	( <sup>1</sup> )	Aug. 26, 1911	18 squirrels.
Santa Clara.....	Aug. 31, 1910	( <sup>1</sup> )	June 21, 1916	32 squirrels.
San Luis Obispo.....	( <sup>1</sup> )	( <sup>1</sup> )	Jan. 29, 1910	1 squirrel.
Santa Cruz.....	( <sup>1</sup> )	( <sup>1</sup> )	May 30, 1916	5 squirrels.
Stanislaus.....	( <sup>1</sup> )	( <sup>1</sup> )	June 2, 1911	18 squirrels.
San Mateo.....	( <sup>1</sup> )	( <sup>1</sup> )	June 21, 1916	1 squirrel.

<sup>1</sup> None.

<sup>2</sup> Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, Stanislaus, San Benito, Santa Cruz, Monterey, Merced, Santa Clara, and San Mateo.

OPERATIONS ON THE WATER FRONT.		OPERATIONS ON THE WATER FRONT—CON.	
Number of vessels inspected for rat guards...	18	Bait used on water front and vessels, bacon (pounds).....	6
Number of reinspections made on vessels...	2	Amount of bread used in poisoning water front (loaves).....	12
Rats trapped on wharves and water front ..	75	Number of pounds of poison used on water front.....	4
Rats trapped on vessels.....	16	Poisons placed within Panama-Pacific International Exposition grounds (pieces).....	36,000
Number of traps set on wharves and water front.....	192		
Number of traps set on vessels.....	71		
Number of vessels trapped on.....	17		
Poisons placed on water front (pieces).....	3,600		

The following is a record of municipal work performed under the supervision of the United States Public Health Service:

COOPERATIVE MUNICIPAL WORK.		WORK DONE ON OLD BUILDINGS.	
Number of premises inspected.....	605	Wooden floors removed.....	24
Number of nuisances abated.....	126	Number yards and passageways, planking removed.....	1
Number of rats trapped.....	91	Cubic feet new foundation walls installed...	3,315
Number of rats sent to laboratory.....	91	Concrete floors installed (square feet, 3,705).....	8
Number of rats examined.....	85	Number of basements concreted, (square feet, 7,875).....	10
Number of poisons placed.....	46,500	Yards, passageways, etc., concreted (square feet, 2,115).....	9
Number of garbage cans stamped approved.....	535	Total area concrete laid (square feet).....	13,695
Rats identified:		Number floors rat-proofed with wire cloth, square feet, 400.....	1
Mus norvegicus.....	44	Buildings razed.....	10
Mus rattus.....	17		
Mus alexandrinus.....	30		

## WEEK ENDED SEPT. 9, 1916.

## FEDERAL AND COUNTY INSPECTION SERVICE.

[For the enforcement of the law of June 7, 1913.]

Counties.	Number inspections.	Number reinspections.	Acres inspected.	Acres reinspected.	Acres treated.			Holes treated.
					Pumps.	Waste balls.	Grain.	
Alameda.....		76		21,896			3,579	
Contra Costa.....	3	62	2,380	21,910			7,247	
Stanislaus.....	64	49	10,397	17,923	500	552	5,293	1,000
Santa Cruz.....	7	28	5,660	5,994			2,000	
Merced.....	19	24	8,676	4,400			3,290	
Monterey.....	27	20	24,359	59,117			15,863	
Santa Clara.....	36	4	11,823	960			1,670	
San Benito.....	27	31	35,149	15,805			24,086	
San Mateo.....	9		2,196					
Total.....	192	294	100,640	148,005	500	552	63,028	1,000

## RATS COLLECTED AND EXAMINED FOR PLAGUE.

Cities.	Collected.	Examined.	Infected.
Oakland.....	28	28	None.
Richmond.....	9	9	None.
Antioch.....	62	62	None.
Total.....	99	99	

## RECORD OF PLAGUE INFECTION.

Places in California.	Date of last case of human plague.	Date of last case of rat plague.	Date of last case of squirrel plague.	Total number rodents found infected since May, 1907.
<b>Cities:</b>				
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	(1)	398 rats.
Oakland.....	Aug. 9, 1911	Dec. 1, 1908	(1)	126 rats.
Berkeley.....	Aug. 28, 1907	(1)	(1)	(1)
Los Angeles.....	Aug. 11, 1908	(1)	Aug. 21, 1908	1 squirrel.
<b>Counties:</b>				
Alameda (exclusive of Oakland and Berkeley).....	Sept. 24, 1909	Oct. 17, 1909 <sup>2</sup>	June 23, 1916	293 squirrels, 1 wood rat.
Contra Costa.....	July 13, 1915	(1)	June 28, 1916	1,629 squirrels.
Fresno.....	(1)	(1)	Oct. 27, 1911	1 squirrel.
Merced.....	(1)	(1)	May 12, 1916	7 squirrels.
Monterey.....	(1)	(1)	May 27, 1916	38 squirrels.
San Benito.....	June 4, 1913	(1)	July 1, 1916	72 squirrels.
San Joaquin.....	Sept. 18, 1911	(1)	Aug. 26, 1911	18 squirrels.
Santa Clara.....	Aug. 31, 1910	(1)	June 21, 1916	32 squirrels.
San Luis Obispo.....	(1)	(1)	Jan. 29, 1910	1 squirrel.
Santa Cruz.....	(1)	(1)	May 30, 1916	5 squirrels.
Stanislaus.....	(1)	(1)	June 2, 1911	18 squirrels.
San Mateo.....	(1)	(1)	June 21, 1916	1 squirrel.

<sup>1</sup> None.<sup>2</sup> Wood rat.

The work is being carried on in the following-named counties: Alameda, Contra Costa, Stanislaus, Monterey, San Benito, Santa Cruz, Merced, Santa Clara, and San Mateo.

## OPERATIONS ON THE WATER FRONT.

Number of vessels inspected for rat guards..	22
Number of reinspections made on vessels...	5
Number of new rat guards procured.....	1
Number of defective rat guards repaired....	1
Rats trapped on wharves and water front...	39
Rats trapped on vessels.....	19
Number of traps set on wharves and water front.....	252
Number of traps set on vessels.....	66
Number of vessels trapped on.....	18

## OPERATIONS ON THE WATER FRONT—CON.

Poisons place on water front (pieces).....	3,600
Bait used on water front and vessels, bacon (pounds).....	5
Amount of bread used in poisoning water front (loaves).....	12
Number of pounds of poison used on water front.....	4
Poisons placed within Panama-Pacific International Exposition grounds (pieces).....	30,000

The following is a record of municipal work performed under the supervision of the United States Public Health Service:

## COOPERATIVE MUNICIPAL WORK.

Number of premises inspected.....	569
Number of nuisances abated.....	74
Number of rats trapped.....	58
Number of rats sent to laboratory.....	58
Number of rats examined.....	58
Number of poisons placed.....	38,100
Number of garbage cans stamped approved.	421
<b>Rats identified:</b>	
Mus norvegicus.....	26
Mus rattus.....	14
Mus alexandrinus.....	18

## WORK DONE ON OLD BUILDINGS.

Wooden floors removed.....	14
Cubic feet new foundation walls installed...	2,465
Concrete floors installed (square feet, 4,525).	6
Number of basements concreted (square feet, 2,545).....	4
Yards and passageways, etc., concreted (square feet, 2,555).....	6
Total area concrete laid (square feet).....	9,625
Number floors rat-proofed with wire cloth (square feet, 1,250).....	2
Buildings razed.....	5

## LOUISIANA—NEW ORLEANS—PLAGUE ERADICATION.

The following report of plague-eradication work at New Orleans for the week ended September 16, 1916, was received from Passed Asst. Surg. Simpson, of the United States Public Health Service, in charge of the work:

OUTGOING QUARANTINE.		LABORATORY OPERATIONS—continued.	
Number of vessels fumigated with sulphur.	9	Total rodents received at laboratory.....	8,461
Number of vessels fumigated with cyanide gas.....	16	Rodents examined.....	1,380
Pounds of sulphur used.....	680	Number of rats suspected of plague.....	125
Pounds of cyanide used in cyanide-gas fumigation.....	774	Plague rats confirmed.....	3
Pints of sulphuric acid used in cyanide-gas fumigation.....	1,149	PLAGUE RATS.	
Clean bills of health issued.....	38	Case No. 332:	
Foul bills of health issued.....	1	Address, 133 Camp Street.	
FIELD OPERATIONS.		Captured, Aug. 15, 1916.	
Number of rodents trapped.....	8,717	Diagnosis confirmed, Sept. 10, 1916.	
Number of premises inspected.....	7,260	Treatment of premises: Intensive trapping.	
Notices served.....	433	Immediate repair of defects.	
Number of garbage cans installed.....	19	Case No. 333:	
BUILDINGS RAT PROOFED.		Address, 1035 Baronne Street.	
By elevation.....	154	Captured, Aug. 23, 1916.	
By marginal concrete wall.....	163	Diagnosis confirmed, Sept. 10, 1916.	
By concrete floor and wall.....	139	Treatment of premises: Immediate rat proofing	
By minor repairs.....	364	of laundry and grocery store. Intensive	
Total buildings rat proofed.....	820	trapping.	
Square yards of concrete laid.....	3,464	Case No. 334:	
Number of premises, planking and shed		Address: Marigny and Frenchmen Streets.	
flooring removed.....	93	Captured, Aug. 28, 1916.	
Number of buildings demolished.....	217	Diagnosis confirmed, Sept. 15, 1916.	
Total buildings rat proofed to date (abated). 126,443		Treatment of premises: Rat proofing initiated.	
LABORATORY OPERATIONS.		PLAGUE STATUS TO SEPT. 16, 1916.	
Rodents received by species:		Last case of human plague, Sept. 8, 1915.	
Mus rattus.....	119	Last case of rodent plague, Aug. 28, 1916.	
Mus norvegicus.....	738	Total number of rodents captured to Sept.	
Mus alexandrinus.....	92	16.....	843,196
Mus musculus.....	7,303	Total number of rodents examined to Sept.	
Wood rats.....	73	16.....	382,009
Musk rats.....	2	Total cases of rodent plague to Sept. 16, by	
Putrid.....	134	species:	
		Mus musculus.....	6
		Mus rattus.....	20
		Mus alexandrinus.....	16
		Mus norvegicus.....	292
		Total rodent cases to Sept. 16, 1916....	331

## WASHINGTON—SEATTLE—PLAGUE ERADICATION.

The following report of plague-eradication work at Seattle for the week ended September 9, 1916, was received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

RAT PROOFING.		RAT PROOFING—continued.	
New buildings inspected.....	16	Yards, etc., concreted, new structures	
New buildings reinspected.....	30	(square feet, 750).....	3
Basements concreted, new buildings		Sidewalks concreted (square feet).....	7,280
(square feet, 10,250).....	7	Total concrete laid, new structures (square	
Floors concreted, new buildings (square		feet).....	35,755
feet, 17,475).....	12	New buildings elevated.....	2

<sup>1</sup> Indicates the number of rodents the tissues of which were inoculated into guinea pigs. Most of these showed on necropsy only evidence of recent inflammatory process; practically none presented gross lesions characteristic of plague infection.

**RAT PROOFING—continued.**

New premises rat proofed, concrete.....	19
Old buildings inspected.....	3
Premises, rat proofed, concrete, old buildings.....	3
Floors concreted, old buildings (square feet, 9,750).....	3
Wooden floors removed, old buildings.....	3
Buildings razed.....	1

**LABORATORY AND RODENT OPERATIONS.**

Dead rodents received.....	10
Rodents trapped and killed.....	245
Rodents recovered after fumigation.....	10

Total.....	265
Rodents examined for plague infection....	172
Rodents proved plague infected.....	None.
Poison distributed, pounds.....	16
Bodies examined for plague infection.....	None.

**CLASSIFICATION OF RODENTS.**

Mus rattus.....	22
Mus alexandrinus.....	48
Mus norvegicus.....	138
Mus musculus.....	57

**WATER FRONT.**

Vessels inspected and histories recorded....	17
Vessels fumigated.....	2
Sulphur used (pounds).....	3,200
New rat guards installed.....	9
Defective rat guards repaired.....	15

**WATER FRONT—continued.**

Fumigation certificates issued.....	2
Port sanitary statements issued.....	37
The usual day and night patrol was maintained to enforce rat guarding and fending.	

**MISCELLANEOUS WORK.**

Letters sent in re rat complaints.....	4
Restaurant permits viséed.....	7

**RODENTS EXAMINED IN EVERETT.**

Mus norvegicus trapped.....	63
Mus musculus trapped.....	1
Total.....	64
Rodents examined for plague infection.....	53
Rodents proved plague infected.....	None.

**RAT-PROOFING OPERATIONS IN EVERETT.**

New buildings inspected.....	3
New buildings reinspected.....	8
New buildings, concrete foundations.....	2
New buildings elevated 18 inches.....	1
New buildings, basements concreted (square feet, 4,800).....	5
New buildings, yards concreted (square feet, 160).....	1
Total concrete laid, new buildings (square feet).....	4,960

**RODENTS EXAMINED IN TACOMA.**

Mus norvegicus trapped.....	40
Mus alexandrinus trapped.....	2
Total.....	48
Rodents examined for plague infection.....	48
Rodents proved plague infected.....	None.

**HAWAII—HONOLULU—PLAGUE PREVENTION.**

The following report of plague-prevention work at Honolulu for the week ended September 9, 1916, was received from Surg. Trotter, of the United States Public Health Service:

Total rats and mongoose taken.....	306	Classification of rats trapped—Continued.	
Rats trapped.....	304	Mus norvegicus.....	48
Mongoose trapped.....	2	Mus rattus.....	9
Examined microscopically.....	247	Average number of traps set daily.....	984
Examined macroscopically.....	59	Cost per rat destroyed.....	25 cents.
Showing plague infection.....	None.	Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910.	
Classification of rats trapped:		Last case human plague, Honolulu, July 12, 1910.	
Mus alexandrinus.....	135		
Mus musculus.....	112		